

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.usplo.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/614,050	07/08/2003	Kang Soo Seo	1740-000010/US	7555
30593 7590 03/23/2007 HARNESS, DICKEY & PIERCE, P.L.C. P.O. BOX 8910			EXAMINER	
			ZHAO, DAQUAN	
RESTON, VA 20195			ART UNIT	PAPER NUMBER
			2621	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		03/23/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

						
	Application No.	Applicant(s)				
0.55	10/614,050	SEO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Daquan Zhao	2621				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING E - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO .136(a). In no event, however, may a reply be to d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	ON. Imply filed In the mailing date of this communication. IED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on <u>08 .</u>	luly 2003	•				
	is action is non-final.					
· <u> </u>	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under	· · · · · · · · · · · · · · · · · · ·					
Disposition of Claims	· · · · · · · · · · · · · · · · · · ·					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application	n.					
, , , , , , , , , , , , , , , , , , , ,	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	,					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.	· <u> </u>					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
9) The specification is objected to by the Examin	er.					
10)⊠ The drawing(s) filed on <u>08 July 2003</u> is/are: a		by the Examiner.				
Applicant may not request that any objection to the	, , , , , , , , , , , , , , , , , , , ,					
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is o	bjected to. See 37 CFR 1.121(d).				
11)☐ The oath or declaration is objected to by the E	xaminer. Note the attached Offic	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)⊠ Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)⊠ All b)☐ Some * c)☐ None of:						
1.⊠ Certified copies of the priority documen	1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documen	2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the price	· ·	ved in this National Stage				
application from the International Burea						
* See the attached detailed Office action for a lis	t of the certified copies not receiv	/ed.				
Attachment(s)	A) [] 1-A	ov (PTO 413)				
Notice of References Cited (PTO-892)	4) Interview Summar Paper No(s)/Mail I					
3) Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal	Patent Application				
Paper No(s)/Mail Date 6) Other:						

DETAILED ACTION

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 1-10 are rejected under 35 U.S.C. 101 because When nonfunctional descriptive material is recorded on some computer-readable medium, in a computer or on an electromagnetic carrier signal, it is not statutory since no requisite functionality is present to satisfy the practical application requirement. Merely claiming nonfunctional descriptive material, i.e., abstract ideas, stored on a computer-readable medium, in a computer, or on an electromagnetic carrier signal, does not make it statutory. See Diehr, 450 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in Benson were unpatentable as abstract ideas because "[t]he sole practical application of the algorithm was in connection with the programming of a general purpose computer."). Such a result would exalt form over substance. In re Sarkar, 588 F.2d1330, 1333, 200 USPQ 132, 137 (CCPA 1978) ("[E]ach invention must be evaluated as claimed; yet semantogenic considerations preclude a determination based solely on words appearing in the claims. In the final analysis under § 101, the claimed invention, as a whole, must be evaluated for what it is.") (quoted with approval in Abele, 684 F.2d at907, 214 USPQ at 687). See also in re Johnson, 589 F.2d 1070, 1077, 200 USPQ199, 206 (CCPA 1978) ("form of the claim is often an exercise in drafting"). Thus, nonstatutory music is not a computer component, and it does not become statutory by

Application/Control Number: 10/614,050

Art Unit: 2621

merely recording it on a compact disk. Protection for this type of work is provided under the copyright law.

Claims 1, 3, 8, 10 recite "a recording medium having a data structure". The "data structure" recites in the claims does not meet the definition of IEEE, wherein the definition of data structure is a physical or logical relation among data elements, designed to support specific data manipulation functions. The body of the claims 1, 3, 8, 10 only direct to a plurality of data packets and a plurality of time control information, which fail to shown any physical or logical relationship. The data structure in claims 1,3, 8 and 10 are treated as non-functional descriptive material recited in a recording medium, which is not statutory subject matter.

Claims 2, 4-7, 9 are also affected.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 3, 4, 6, 7, 8, 10, 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Okada et al (US 6,181,870 B1).

For claim 1, Okada et al teach a recording medium having a data structure for managing video data recorded on the recording medium (e.g. figure 6A shows the data structure of video stream recorded on the DVD, column 16, lines 22-60), comprising:

Art Unit: 2621

- a plurality of data packets recorded on the recording medium (e.g. figure 6A, a video stream contains plurality of GOP, wherein each GOP contains plurality of video packets, column 16, lines 44-60);
- a plurality of time control information areas (e.g. Figure 6H, plurality of GOP contain plurality of video packets, where a PTS and a DTS can be assigned once to each GOP, column 23, lines 26-49), representing decoding time interval information (e.g. interval corresponds to the GOP), each of said plurality of time control information areas recorded at a fixed time interval in a corresponding one of said plurality of data packets (e.g. figure 6H, PTS and DTS in one packet header).

Claims 3, 8,10, 11 and 12 are rejected for the same reasons as discussed in claim 1 above.

For claim 2, Okada et al teach fixed time interval is not greater than 700 milliseconds (column 24, lines 20-56, continuity of DTS and SCRs exhibit the same characteristic, wherein the time stamp gap must not exceed 0.7 seconds).

For claim 6, Okada et al teach each of time control information areas is recorded in a first data packet within said fixed recording area of the recording medium (e.g. figure 6C shows the first video packet in the GOP and figure 6H shows the DTS is in the Packet Header, wherein only the first video packet has a Packet header, and column 23 lines 42-45 teach that the DTS can be in all packet).

For claim 7, Okada et al teach the time control information areas is recorded in an arbitrary one data packet within said fixed recording area of the recording medium (column 23 lines 42-45 teach that the DTS can be in all packet).

For claim 4, Okada et al teach fixed recording area is a sector (e.g. figure 3A and 3 B, column 12, line 42-column 13, line 10).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 6,181,870 B1) as applied to claims 1, 2, 3, 4, 6, 7, 8, 10, 11 and 12 above, and further in view of Yoo et al (US 2002/0,150,392 A1).

See the teaching of Okada et al above.

For claim 9, Okada et al fail to specify fixed packet interval is 10 packets. You et al teach a fixed packet interval is 10 packets (paragraph [0033]). It would have been obvious for one ordinary skill in the art at the time the invention was made to have use 10 packets as a fixed interval in the system disclosed by Okada et al to simply the data process step and reduce the time for data processing.

Application/Control Number: 10/614,050

Art Unit: 2621

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 6,181,870 B1) as applied to claims 1, 2, 3, 4, 6, 7, 8, 10, 11 and 12 above.

Page 6

See the teaching of Okada et al above.

For claim 5, Okada et al fail to specify the sector has a recording area of 2048 bytes. The examiner takes official notice of a recording area of 2048 bytes since it is well known in the DVD technology. It would have been obvious for one ordinary skill in the art at the time the invention was made to use 2048 bytes for the sector to ensures that the optical pickup can move a constant velocity while performing access within a single zone. By doing so, the recording density of the DVD is raised, and rotation control during recording and reproduction is made easieier.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Owashi et al (US 6,757,478 B2); Yamagishi et al (US 6,141,491).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. The examiner can normally be reached on M-Fri. 7:30 -5, alt Fri. off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Daquan Zhao

Tran Thai Q Supervisory Patent Examiner